

Attachment to NF1329A

FACET: Future ATM Concepts Evaluation Tool

14 April 2006

New technical publications of the contributors (2004 to present)

1. Menon, P.K., Sweriduk, G.D., and Bilimoria K.D., "New Approach for Modeling, Analysis, and Control of Air Traffic Flow," *Journal of Guidance, Control, and Dynamics*, Vol. 27, No. 5, September-October 2004, pp. 737–744.
2. Smith, P., Sheth, K., Grabbe, S., Liu, C., and Sridhar, B., "The Design of FACET to Support Use by Airline Operations Centers," *Proceedings of the 23rd Digital Avionics Systems Conference*, Salt Lake City, UT, October 2004.
3. Liu, C., Smith, P., Billings, C., Sheth, K., Grabbe, S., and Sridhar, B.; "The Use of Integrated Historical and Predictive Data to Support Flight Planning by Airline Dispatchers," *Proceedings of International Symposium on Aviation Psychology*, Dayton, OH, April 2005.
4. Sridhar, B. and Menon, P.K., "Comparison of Linear Dynamic Models for Air Traffic Flow Management," *Proceedings of 16th International Federation of Automatic Control Conference (IFAC) World Congress*, July 2005, Prague, CZ.
5. Chatterji, G.B., and Sridhar, B., "National Airspace System Delay Estimation Using Weather Weighted Traffic Counts," *Proceedings of AIAA Guidance, Navigation and Control Conference*, San Francisco, CA, August 2005.
6. Menon, P.K., Diaz, G. Vaddi, S., and Grabbe, S., "A Rapid-Prototyping Environment for En Route Air Traffic Management Research," Paper No. 2005-6046, *AIAA Guidance Navigation and Control Conference*, San Francisco, CA, August 2005.
7. Sridhar, B., Sheth, K., Smith, P., and Leber, W., "Migration of FACET from Simulation Environment to Dispatcher Decision Support System," *Proceedings of Digital Avionics Systems Conference*, Washington, D.C., November 2005.
8. Menon, P.K., Sweriduk, G.D., Lam, T., Diaz, G.M., and Bilimoria, K.D., "Computer-Aided Eulerian Air Traffic Flow Modeling and Predictive Control," *Journal of Guidance, Control, and Dynamics*, Vol. 29, No. 1, January-February 2006, pp. 12–19.
9. Sridhar, B., Soni, T., Sheth, K., and Chatterji, G.; "An Aggregate Flow Model for Air Traffic Management," *Journal of Guidance, Control, and Dynamics*, Vol. 29, No. 3, June 2006 (to appear – attached copy is a DRAFT).
10. Sun, D., Yang, S. D., Strub, I., Bayen, A. M., Sridhar, B. and Sheth, K., "Eulerian Trilogy," *AIAA Guidance, Navigation, and Control Conference*, Keystone, CO, August, 2006 (to appear – attached copy is a DRAFT).

11. Sridhar, B., Grabbe, S., Sheth, K., and Bilimoria, K., "Initial Study of Tube Networks for Flexible Airspace Utilization," *AIAA Guidance, Navigation, and Control Conference*, Keystone, CO, August 2006 (to appear – attached copy is a DRAFT).
12. Sheth, K., Sridhar, B., and Mulfinger, D., "Impact of Probabilistic Weather Forecasts on Flight Routing Decisions," *AIAA Aviation Technology, Integration and Operations Conference*, Wichita, KS, September, 2006 (to appear – attached copy is a DRAFT).

Note: Copies of all the above papers have been provided as attachments.